

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference LeA 36568-WO	<b>FOR FURTHER ACTION</b>	
		See item 4 below
International application No. PCT/EP2004/001462	International filing date ( <i>day/month/year</i> ) 17 February 2004 (17.02.2004)	Priority date ( <i>day/month/year</i> ) 24 February 2003 (24.02.2003) ]
International Patent Classification (IPC) or national classification and IPC <sup>7</sup> C08L 83/12, B01J 20/26, C02F 1/42		
Applicant LANXESS DEUTSCHLAND GMBH		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 7 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- |                                     |   |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | Box No. I Basis of the report   |
| <input checked="" type="checkbox"/> | Box No. II Priority   |
| <input type="checkbox"/>            | Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  |
| <input type="checkbox"/>            | Box No. IV Lack of unity of invention   |
| <input checked="" type="checkbox"/> | Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/>            | Box No. VI Certain documents cited  |
| <input type="checkbox"/>            | Box No. VII Certain defects in the international application  |
| <input type="checkbox"/>            | Box No. VIII Certain observations on the international application  |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		Date of issuance of this report 14 October 2005 (14.10.2005)
Facsimile No. +41 22 740 14 35		Authorized officer  <b>Agnes Wittmann-Regis</b>
		Telephone No. +41 22 338 89 70

**PATENT COOPERATION TREATY**

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

**PCT**

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

(PCT Rule 43bis.1)

		Date of mailing (day/month/year) See form PCT/ISA/210
Applicant's or agent's file reference  LeA 36568-WO		<b>FOR FURTHER ACTION</b> See paragraph 2 below
International application No.  PCT/EP2004/001462	International filing date (day/month/year)  17-02-2004	Priority date (day/month/year)  24-02-2003
International Patent Classification (IPC) or both national classification and IPC  C08L 83/12, B01J 20/26, C02F 1/42		
Applicant  LANXESS DEUTSCHLAND GMBH		

1. This opinion contains indications relating to the following items:
 

<input checked="" type="checkbox"/>	Box No. I	Basis of the opinion
<input checked="" type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/EP	Date of completion of this opinion	Authorized officer
Facsimile No.		Telephone No.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/EP2004/001462

Box No. I	Basis of the report
1.	With regard to the language, this opinion has been established on the basis of: <input type="checkbox"/> the international application in the language in which it was filed <input type="checkbox"/> the translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rule 12.3(a) and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material <input type="checkbox"/> a sequence listing <input type="checkbox"/> table(s) related to the sequence listing b. format of material <input type="checkbox"/> on paper <input type="checkbox"/> in electronic form c. time of filing/furnishing <input type="checkbox"/> contained in the international application as filed <input type="checkbox"/> filed together with the international application in electronic form <input type="checkbox"/> furnished subsequently to this Authority for the purposes of search
3.	<input checked="" type="checkbox"/> In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/EP2004/001462

Box No. II Priority

1.  The validity of the priority claim has not been considered because the International Searching Authority does not have in its possession a copy of the earlier application whose priority has been claimed or, where required, a translation of that earlier application. This opinion has nevertheless been established on the assumption that the relevant date (Rules 43bis.1 and 64.1) is the claimed priority date.
2.  This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.
3. Additional observations, if necessary:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No. <b>PCT/EP2004/001462</b>
---

<b>Box No. V</b>		<b>Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</b>																								
<p><b>1. Statement</b></p> <table> <tr> <td align="center">Novelty (N)</td> <td align="center">Claims</td> <td align="center"><u>1-14</u></td> <td align="center">YES</td> </tr> <tr> <td></td> <td align="center">Claims</td> <td align="center"></td> <td align="center">NO</td> </tr> <tr> <td align="center">Inventive step (IS)</td> <td align="center">Claims</td> <td align="center"><u>1-14</u></td> <td align="center">YES</td> </tr> <tr> <td></td> <td align="center">Claims</td> <td align="center"></td> <td align="center">NO</td> </tr> <tr> <td align="center">Industrial applicability (IA)</td> <td align="center">Claims</td> <td align="center"><u>1-14</u></td> <td align="center">YES</td> </tr> <tr> <td></td> <td align="center">Claims</td> <td align="center"></td> <td align="center">NO</td> </tr> </table> <p><b>2. Citations and explanations:</b></p> <p>D1 : US-A-5203991</p> <p>D2 : GB-A-956276</p> <p>1. The subject matter of claims 1-14 is novel within the meaning of PCT Article 33(2). None of the documents cited in the search report relates to mixtures based on organopolysiloxane polyether and a polymer obtained from an aqueous suspension as defined in claims 1, 3, 5 and 12, or to their use as defined in claims 2, 11, 13 and 14. None of the documents cited in the search report relates to a method for producing such mixtures as defined in claims 4-10.</p> <p>D1 relates to a separating material for chromatography columns that consists of porous silica gel, is coated with an Si-H containing silicon polymer, is then reacted with a spacer, and finally reacted with a polyamine, for example, but the document does not relate to an organopolysiloxane polyether or a polymer obtained from an aqueous</p>			Novelty (N)	Claims	<u>1-14</u>	YES		Claims		NO	Inventive step (IS)	Claims	<u>1-14</u>	YES		Claims		NO	Industrial applicability (IA)	Claims	<u>1-14</u>	YES		Claims		NO
Novelty (N)	Claims	<u>1-14</u>	YES																							
	Claims		NO																							
Inventive step (IS)	Claims	<u>1-14</u>	YES																							
	Claims		NO																							
Industrial applicability (IA)	Claims	<u>1-14</u>	YES																							
	Claims		NO																							

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/EP2004/001462

Supplemental Box

suspension.

D2 relates to an organosilicon anion exchanger made of silica gel reacted with an aminosilane.

Therefore, the subject matter of claims 1-14 meets the requirement for novelty pursuant to PCT Article 33(2).

2. The subject matter of claims 1-14 also meets the requirements of PCT Article 33(3).

D1 is regarded as the closest prior art.

The problem to be solved by the present application can be regarded as that of providing further free-flowing polymers obtained from an aqueous suspension, such as functionalized bead polymers.

None of the documents cited in the search report relates to the problem of providing further free-flowing polymers obtained from an aqueous suspension or renders obvious the solution proposed in the application, namely that of rendering such polymers, which are obtained from an aqueous solution, free-flowing by adding organopolysiloxane polyether.

Therefore, the subject matter of claims 1-14

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.  
PCT/EP2004/001462

Supplemental Box

of the present application is also inventive.

3. The subject matter of claims 1-14 is industrially applicable within the meaning of PCT Article 33(4).